

ABSTRACT OF THE DISCLOSURE

A soft magnetic film is formed which is represented by the formula $(\text{Fe}_x\text{Ni}_y)_a\text{Mo}_b$, in which $0.65 \leq x \leq 0.75$ and $x+y=1$ are
5 satisfied when x and y are on a mass percent ratio basis, and $0 < b \leq 5$ and $a+b=100$ are satisfied when a and b are on a mass percent basis, and by using this soft magnetic film, a lower core layer and/or an upper core layer is formed. Accordingly, a saturated magnetic flux density of 1.6 T or more and a
10 resistivity of $40 \mu\Omega \cdot \text{cm}$ or more can be obtained, and hence a thin film magnetic head having a small loss in a high frequency signal region can be provided.